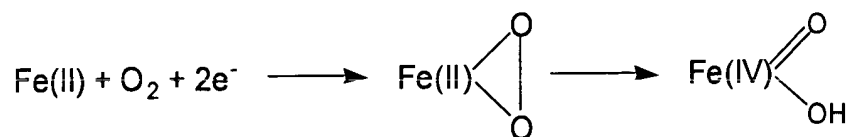


FIGURE 1

Activation of O₂



Reaction Through Cyclic Ester Intermediate

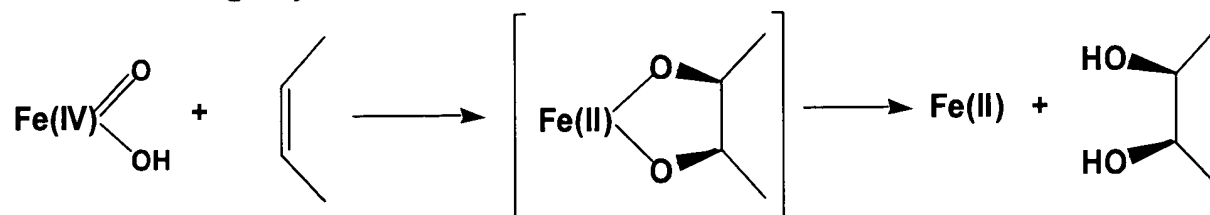


FIGURE 2

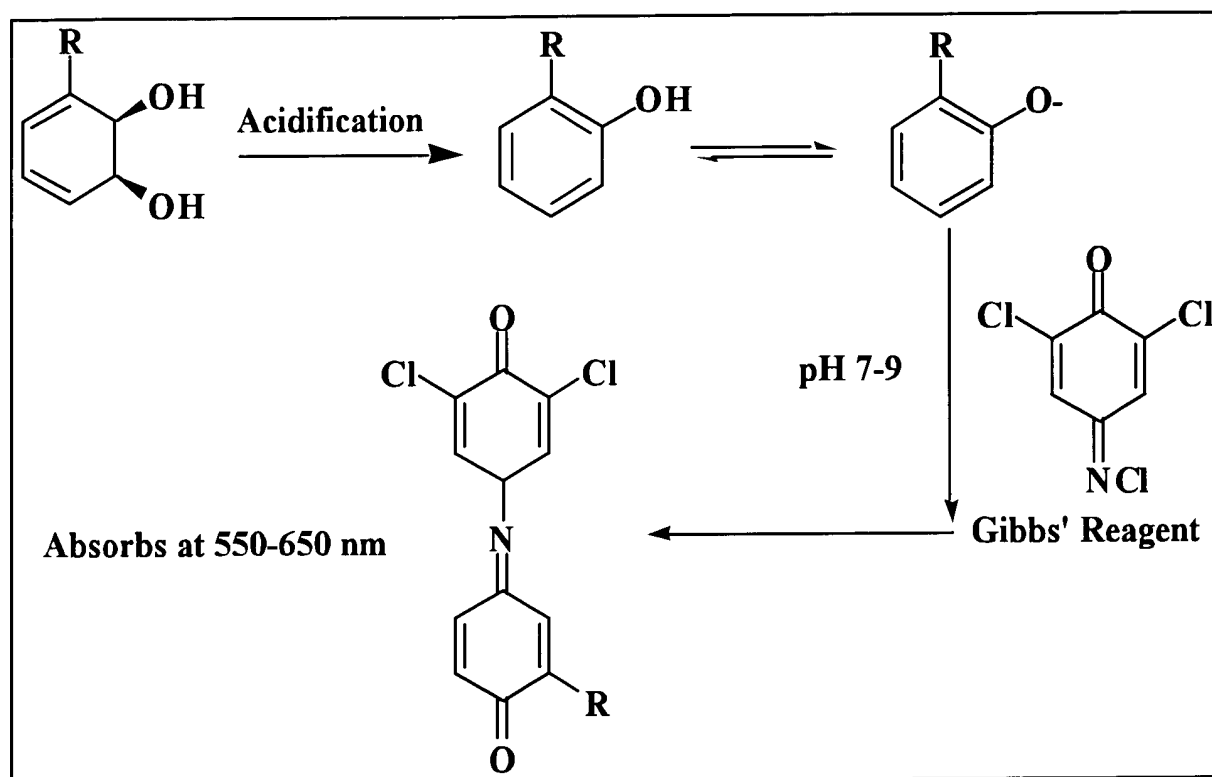


FIGURE 3

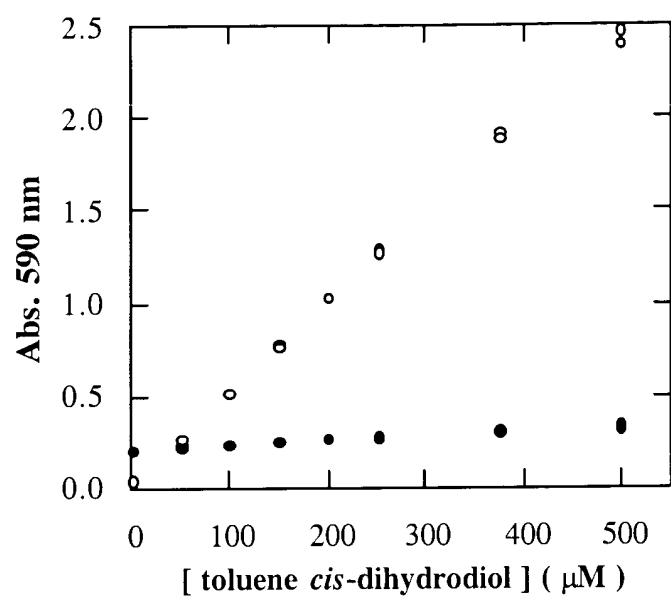


FIGURE 4

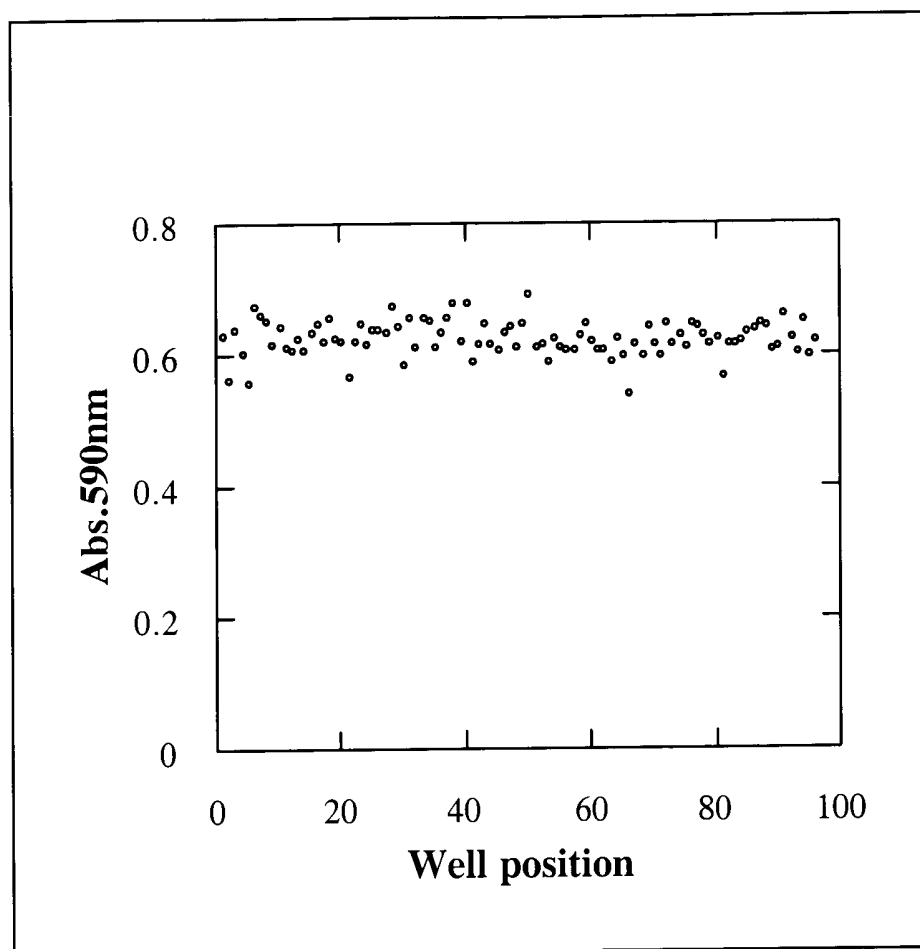


FIGURE 5

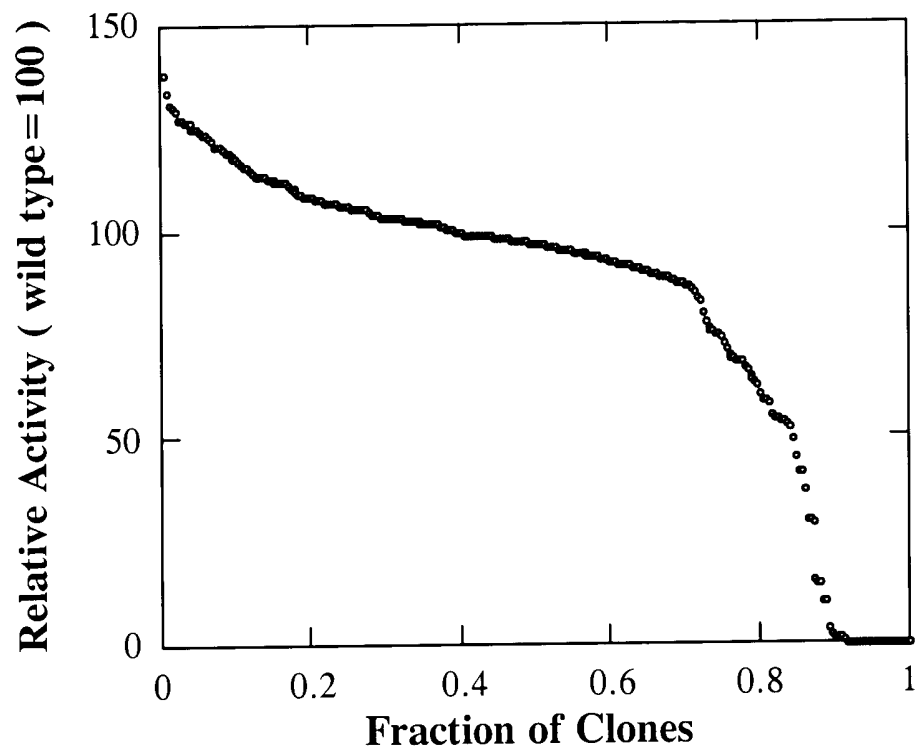


FIGURE 6

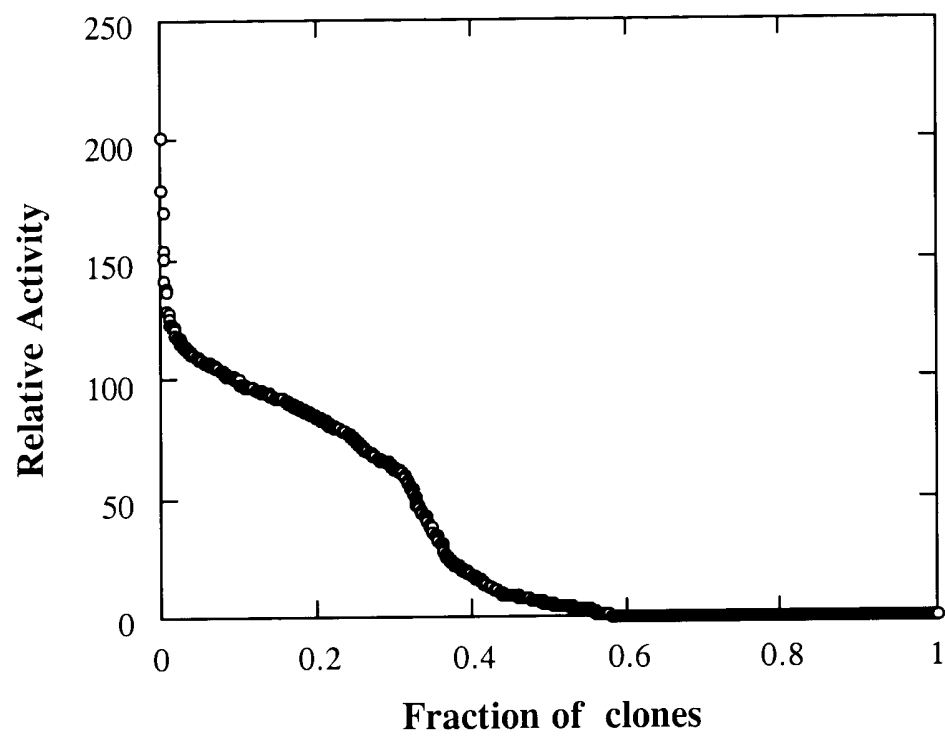
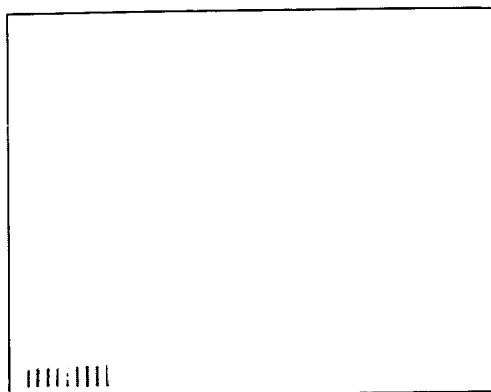


FIGURE 7

A.



B.



C.

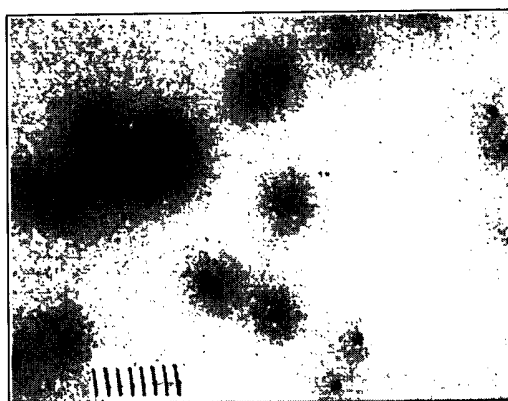


FIGURE 8

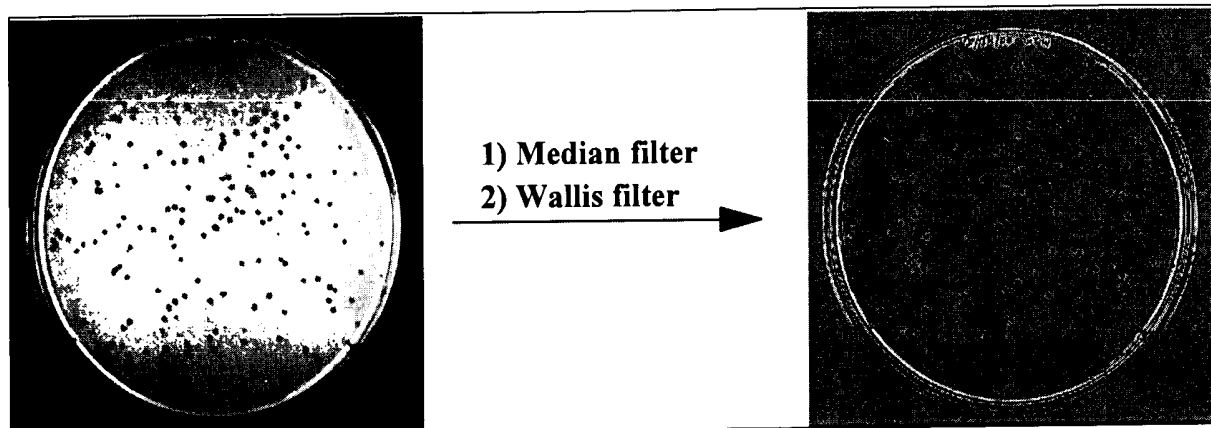


FIGURE 9

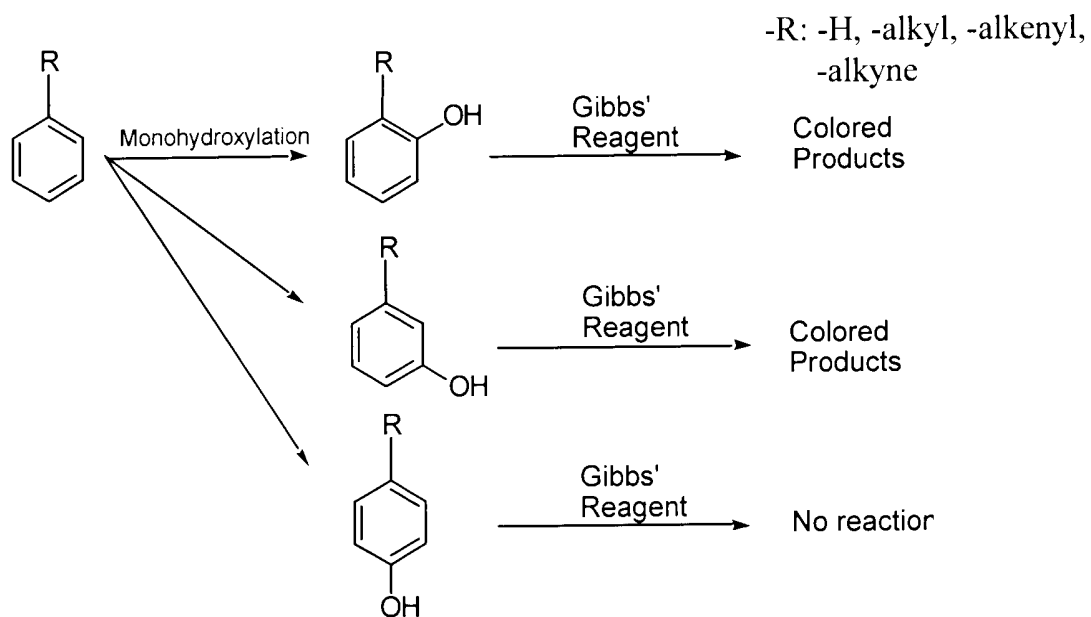
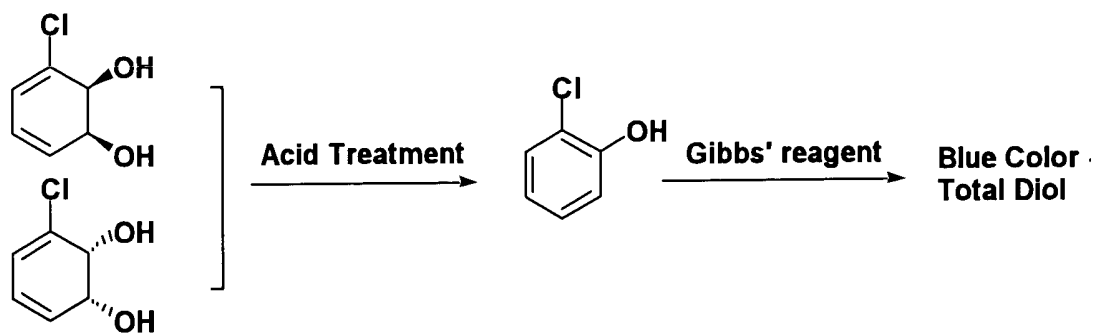


FIGURE 10

Pathway I



Pathway II

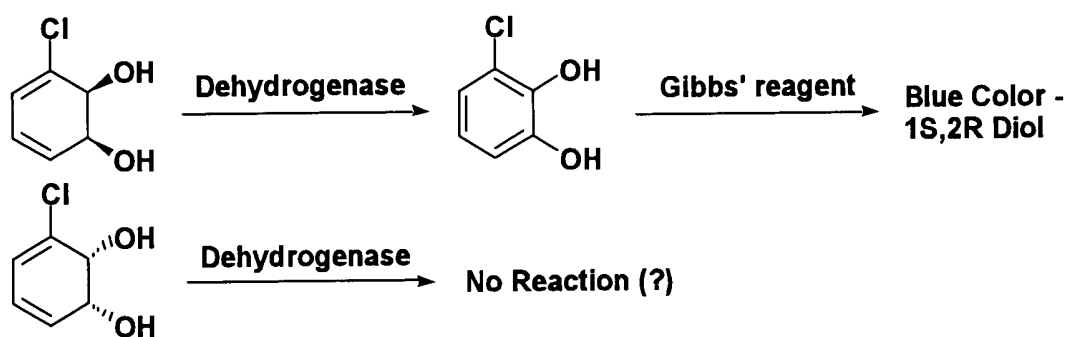
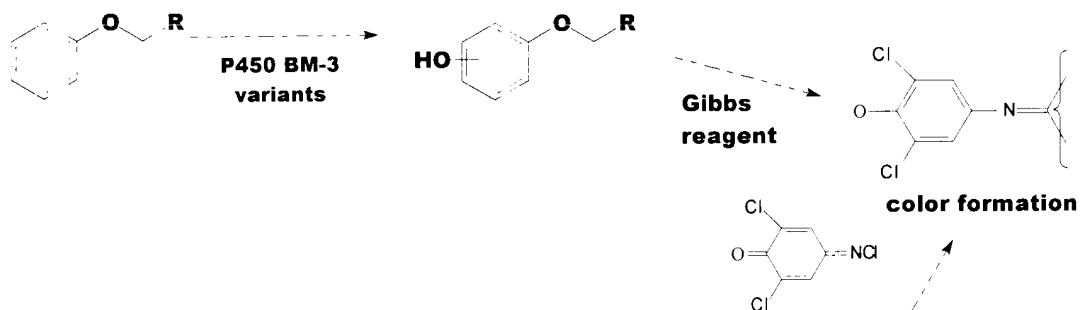


FIGURE 11

Reaction principle

I.



II.

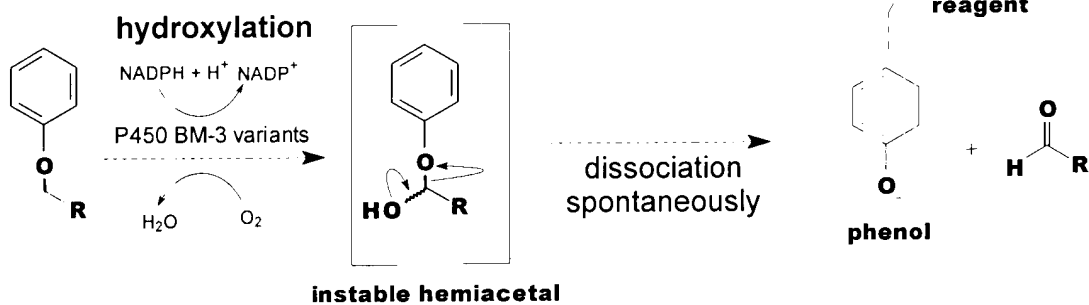


FIGURE 12

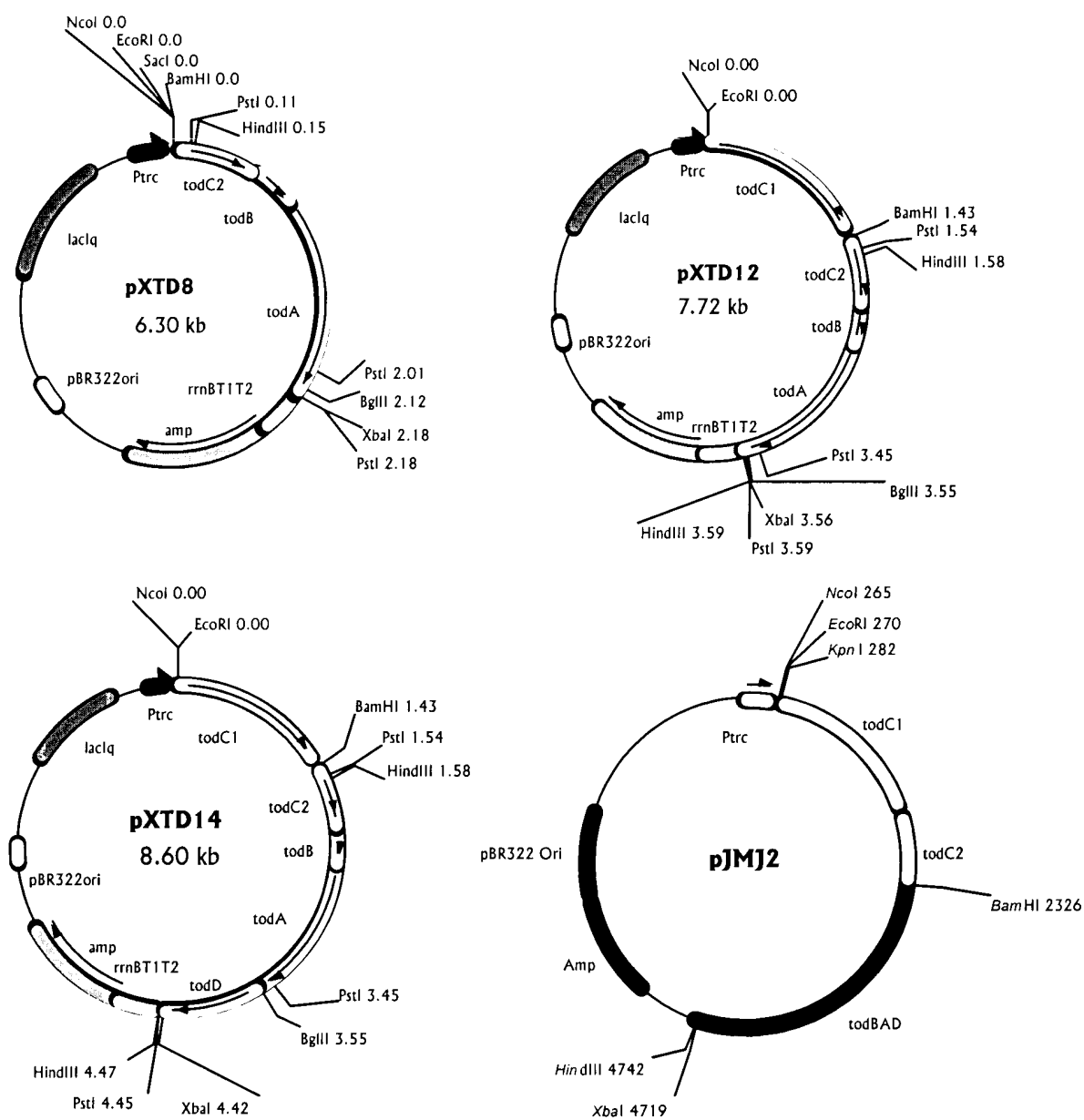


FIGURE 13

Chemistry used to detect dioxygenase products

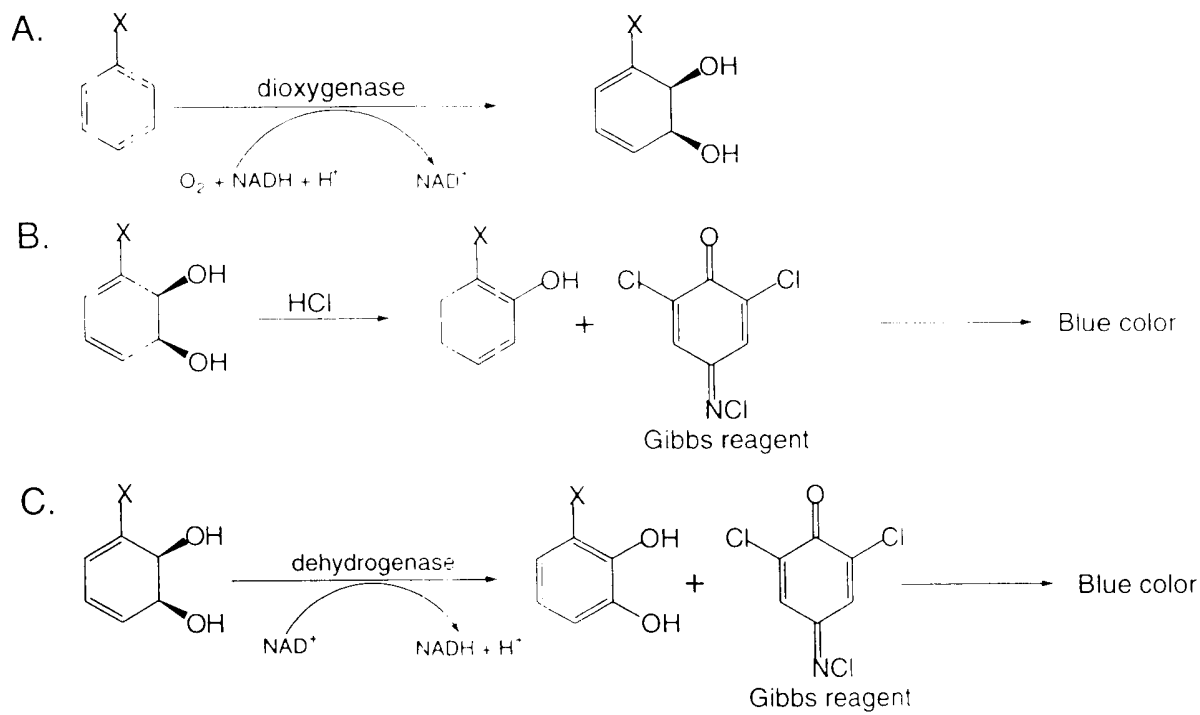
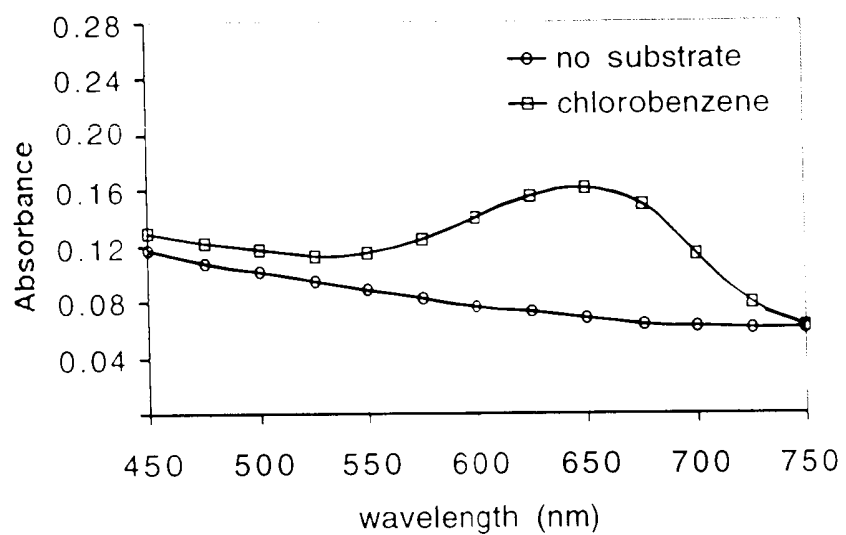


FIGURE 14

Validation of spectroscopic detection method

A.



B.

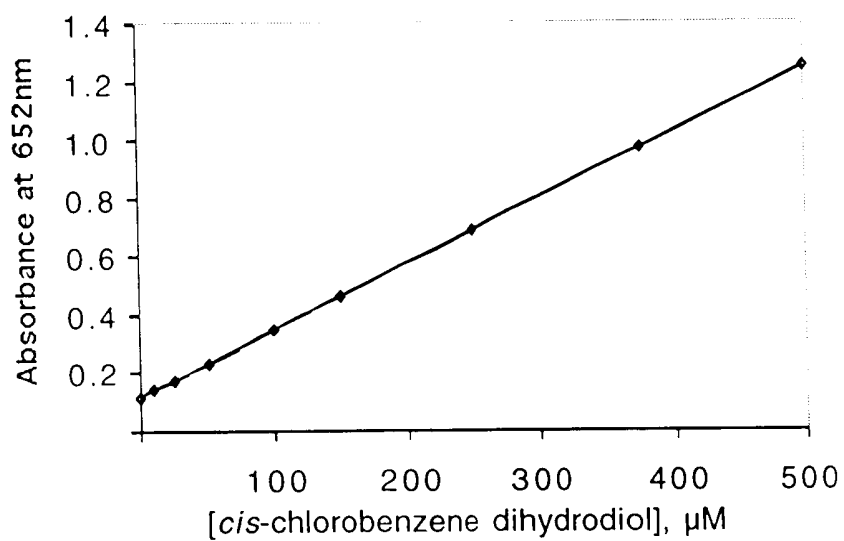
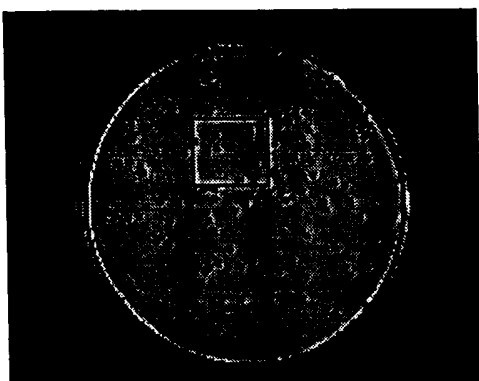


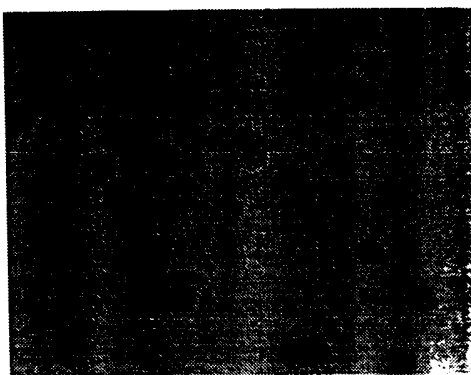
FIGURE 15

Image analysis

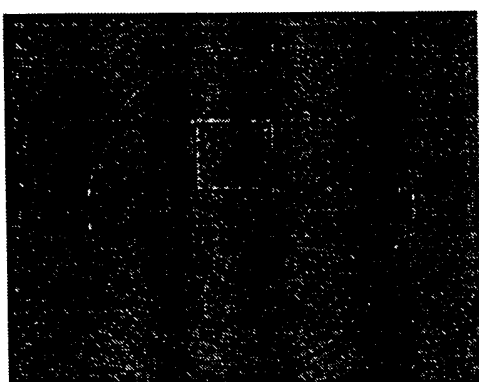
A.



B.



C.



D.

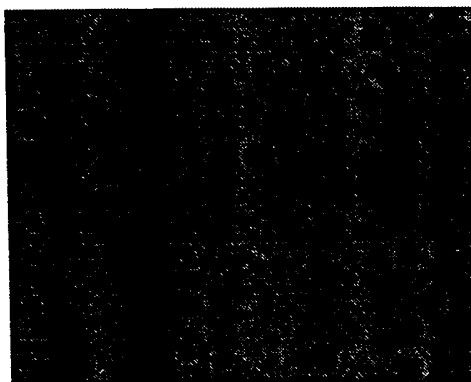
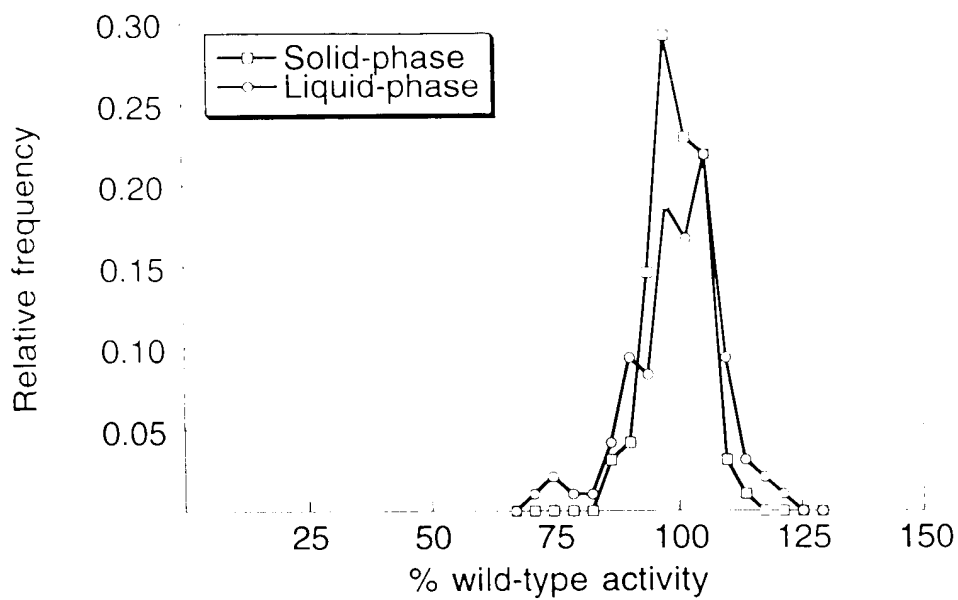


FIGURE 16

Validation of screening methods

A.



B.

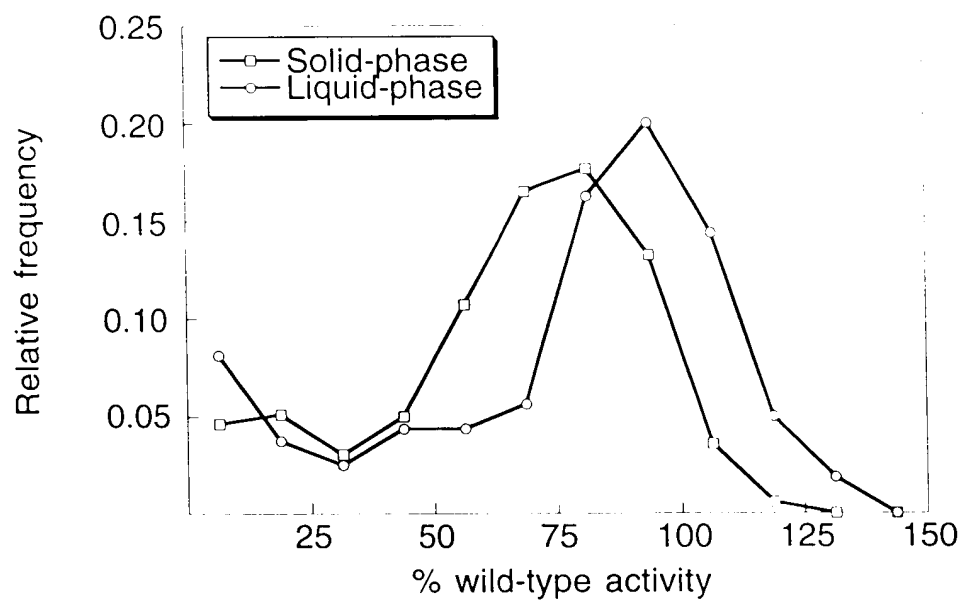


FIGURE 17